



Florida Department of Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Mimi A. Drew
Secretary

October 6, 2010

Sent via Electronic Mail - Read Receipt Requested

sampsolj@leegov.com

Mr. Lindsay J. Sampson
Director
Lee County Solid Waste Division
10500 Buckingham Road, Suite 200
Fort Myers, Florida 33905

Re: Additional Information, File Number 0710119-007-AV
Title V Air Operation Permit Renewal Application
Lee County Resource Recovery Facility (RRF)

Dear Mr. Sampson:

On August 23, 2010, the Department received a Title V air operation permit renewal application for the subject facility via Electronic Permit Submittal and Processing System (EPSAP). The Lee County Resource Recovery Facility is located at 10500 Buckingham Road, Fort Myers in Lee County, Florida.

In order to continue processing the application, the Department needs the additional information requested below. Should a response to any of the below items require new calculations, please submit the new calculations, assumptions, reference material and appropriate revised pages of the permit application form.

Title V Air Operation Permit Renewal for Municipal Waste Combustor (MWC) Unit Nos. 1-3, Emissions Unit Identification Numbers (E.U. ID Nos.) -001, -002 & -006

1. **Renewal Compliance Testing Requirements:** The emissions units in operation under this permit renewal project, e.g., three municipal solid waste combustors Unit Nos. 1, 2, and 3 with auxiliary burners, lime storage silo and ash handling system, are required to demonstrate compliance. In the EPSAP, a cover letter for compliance testing results was attached.
 - a. **Compliance Testing:** Where compliance testing is required, was compliance successfully demonstrated by each emissions unit? What were the actual test results? {There is no need to attach the entire test results, you may simply reference the previously submitted test results.} Please prepare a chart showing the actual test results versus the emission standards/limitations.
 - b. **Steam Production Rates and Capacity:** What was the steam production rate in lbs./hour during the compliance tests? Where the compliance tests conducted within 90-100% of capacity as required by specific conditions A.62. and D.14. of Permit No. 0710119-006-AV?
 - c. **MWC Parameters:** Was the maximum demonstrated unit load, maximum demonstrated inlet temperature to baghouse and average carbon mass feed rate provided in the compliance test report(s)? What were the values?
2. **Compliance Assurance Monitoring (CAM):** CAM applicability had been addressed and described in previous permitting actions for MWC Unit Nos. 1-3 {see the Statement of Basis and the individual emissions unit subsections of Permit No. 0710119-006-AV}. CAM had applied to MWC Unit No. 3, a CAM Plan was approved and attached as part of the permit.
 - a. **MWC Unit No. 3:** In the EPSAP for MWC Unit No. 3, CAM was not checked as being applicable {see Section III. Emissions Unit Information, I. Emissions Unit Additional

- Information, Additional Requirements for Title V Air Operation Permit Applications, Field 2., Compliance Assurance Monitoring Plan}. Unless something has changed, CAM still appears to apply to MWC Unit No. 3. Please provide a Microsoft® Word version of the proposed CAM Plan for MWC Unit No. 3 as part of this permit renewal project.
- b. MWC Unit Nos. 1 and 2: In the EPSAP for MWC Unit Nos. 1 and 2, CAM was not checked as being applicable. The PSD permit, PSD-FL-151, limits sulfuric acid mist (SAM) and fluoride (F) emissions. The emission limits for SAM and F emissions are 39.3 tons per year (TPY) and 3.8 TPY, respectively. Using a control device efficiency of 80% for SAM and F emissions, pre-control device emissions of SAM are calculated to be 196.5 TPY and pre-control device emissions of F as hydrogen fluoride (HF) are calculated to be 19 TPY. This cursory review indicates that CAM applies to these units for SAM and HF emissions. Please re-evaluate CAM applicability for these two pollutants from MWC Unit Nos. 1 and 2, providing all supporting calculations and justifications. If CAM does apply to MWC Unit Nos. 1 and 2, please provide a Microsoft® Word version of a proposed CAM Plan as part of this permit renewal project.
3. Requested Test Method Modifications: In the requested changes document, several test method modifications were requested.
 - a. Hydrogen Chloride (HCl) Emissions Testing: The permit requires an EPA Method 26 or 26A for the determination of HCl emissions. It was mentioned that the Department has approved a modification to the Method 26/26A train when sampling HCl emissions per Errin Pichard's 01/08/2010 e-mail. You provided an excerpt of the e-mail. Please provide a complete copy of the referenced e-mail.
 - b. Dioxin/Furan (D/F) Emissions Testing: Thank you for providing the U.S. EPA test method modification to EPA Method 23, dated June 23, 2004. You cited a 01/08/2010 e-mail from the Department also approving this modified method. The additional attachments referenced as part of the requested document were not included. Please provide a copy of the referenced e-mail.
 4. Stack Information: The stack exit temperatures and gas flow rates for the MWC Unit Nos. 1, 2 and 3 were blank in the EPSAP {see Section III. Emissions Unit Information, C. Emission Point (Stack/Vent) Information, Fields 8., 9. and 11.}. Please provide the stack exit temperatures and both the "acfm" and the "dscfm" stack gas flow rate values.
 5. Cooling Tower: In Appendix U-1, List of Unregulated Emissions Units and/or Activities, "cooling tower" is listed. Does the cooling tower use chromium-based water treatment chemicals?
 6. Applicable Requirements - Federal Regulation Amendments, Municipal Waste Combustors (MWC) 40 Code of Federal Regulations (CFR) 60, Subparts Eb & Cb: U.S. EPA had amended 40 CFR 60, Subparts Eb & Cb on May 10, 2006, and they were subsequently adopted by reference into the Florida rules on May 31, 2007, at Rule 62-204.800(8)(b)7., Florida Administrative Code (F.A.C.) and Rule 62-204.800(9)(b), F.A.C. The new emission standards/limits took effect April 28, 2009 (compliance deadline) for all of the amendments. The revised permit, Permit No. 0710119-006-AV for MWC Unit Nos. 1-3, effective July 14, 2009, contained the amendments.

In the requested changes documents, you requested the May 10, 2006 federal amendment changes to be integrated directly into each respective affected specific condition within the body of the permit.

- a. Lee County had previously had indicated that no modifications to the units would be required to come into compliance with the federal amendment changes. Where any modifications to MWC Unit Nos. 1-3 necessary to come into compliance with the federal amendment changes?

May 10, 2006, Federal Regulation Amendments for MWCs Note:

An inconsistency in the air pollutant test schedule window has been identified in the May 10, 2006, federal regulation amendments for MWCs. The language changed by U.S. EPA for air pollutant testing throughout the amendments is highlighted below with the new language underlined.

... the owner or operator shall conduct a performance test for [air pollutant] on a calendar year basis (no less than 9 calendar months and no more than 15 calendar months following the previous performance test; and must complete five performance tests in each 5-year calendar period). ...

U.S. EPA did not make the change to the test schedule window for HCl and fugitive ash emissions in the federal regulations.

On January 22, 2009, the Department received an e-mail from U.S. EPA confirming this as an error in the CFR. In the federal register, U.S. EPA clearly intended to make the testing schedule change apply to all air pollutants (see the May 10, 2006 federal register, page number 27326). U.S. EPA plans to correct this error soon. Until this error is corrected in the federal regulation, the testing schedule for fugitive ash and HCl emissions will be kept intact.

For Your Information Item(s) Only

Renewal: This is the 2nd Title V air operation permit renewal for the Lee County RRF.

Errors and Obsolete/Outdated Terms and Conditions: As part of the renewal process this cycle, each term and condition of the current Permit No. 0710119-006-AV will be reviewed. Where an error exists or a condition is obsolete and/or outdated a correction will be made. The Department appreciates the applicant's identification of these in the requested changes document (copy enclosed).

"Applicable Requirements" from (PSD)/Air Construction (AC) Permits: The terms and conditions from prevention of significant deterioration (PSD)/air construction (AC) permits are independently "applicable requirements" for purposes of Title V {See the definition in Rule 62-210, F.A.C.}. Applicable requirements from PSD/AC permits may be more restrictive than other applicable requirements like the state's excess emissions Rule 62-210.700, F.A.C., NSPS 40 CFR 60 Subpart Eb, etc. The Title V Program requires a Title V permit to include all applicable requirements. The PSD permit for MWC Unit No. 3, PSD-FL-151, was originally issued on July 20, 1992 and has since been modified (amended). PSD-FL-151, as amended, contains unique site-specific applicable requirements. These unique site-specific applicable requirements will likely be kept verbatim in the Title V air operation permit accompanied by regulatory citation(s) to each specific condition where they originate from the PSD/AC permit.

Recordkeeping Requirement: The Operation and Maintenance Plan document attached in the EPSAP references a recordkeeping requirement of 3 (three) years. Title V sources are required to be keep records for 5 (five) years now under the Title V Program {See Rule 62-213.440, F.A.C.}.


The Department will resume processing the application after receipt of the requested information. Rule 62-4.050(3), Florida Administrative Code (F.A.C.) requires that all applications for a Department Title V air operation permit must be certified by a professional engineer (P.E.) registered in the State of Florida. This requirement also applies to responses to Department requests for additional information of an engineering nature. For any material changes to the application, please include a new certification statement by the responsible official (R.O.).

Rule 62-4.055(1), F.A.C. now requires applicants to respond to requests for information within **ninety (90)** days or provide a written request for an additional period of time to submit the information.

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Title V Air Operation Permit Renewal Application
Lee County RRF
Page 4

If you should have any questions, feel free to contact me by telephone at 850/921-9532 or by e-mail at scott.sheplak@dep.state.fl.us.

Sincerely,



Scott M. Sheplak, P.E.
DEP - Title V Section
Mail Station #5505
2600 Blair Stone Road
Tallahassee, FL 32399

Enclosure

- Applicant's Requested Changes

copy to: Ms. Laura A. Gray, P.E., Lee County: lgray@leegov.com
Mr. Donald J. Castro, P.E., HDR Engineering, Inc.: don.castro@hdrinc.com
Mr. Kirk Dunbar, HDR Engineering, Inc.: kirk.dunbar@hdrinc.com
Mr. Mike Halpin, P.E., DEP Siting: mike.halpin@dep.state.fl.us
Mr. A. J. Satyal, DEP SD: ajaya.satyal@dep.state.fl.us
Ms. Victoria Gibson, DEP BAR: victoria.gibson@dep.state.fl.us (for reading file)

Friday, Barbara

To: sampsolj@leegov.com
Cc: lgray@leegov.com; don.castro@hdrinc.com; Kirk.Dunbar@HDRInc.com; Halpin, Mike; Satyal, Ajaya; Gibson, Victoria; Sheplak, Scott
Subject: Additional Information, File Number 0710119-007-AV - Title V Air Operation Permit Renewal Application - Lee County Resource Recovery Facility (RRF)
Attachments: LindsayJ.Simpson0710119-007-AVAdditionalInformation.pdf; applicant requested changes _Description of Proposed Structural Changes.doc

Dear Sir/Madam:

Please send a "reply" message verifying receipt of the attached document(s); this may be done by selecting "Reply" on the menu bar of your e-mail software, *noting that you can view the documents*, and then selecting "Send". We must receive verification of receipt and your reply will preclude subsequent e-mail transmissions to verify receipt of the document(s).

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Thank you,

Barbara Friday
Bureau of Air Regulation
Division of Air Resource Management (DARM)
(850)921-9524

Friday, Barbara

From: Microsoft Exchange
To: sampsolj@leegov.com; lgray@leegov.com
Sent: Thursday, October 07, 2010 9:04 AM
Subject: Relayed: Additional Information, File Number 0710119-007-AV - Title V Air Operation Permit Renewal Application - Lee County Resource Recovery Facility (RRF)

Delivery to these recipients or distribution lists is complete, but delivery notification was not sent by the destination:

sampsolj@leegov.com

lgray@leegov.com

Subject: Additional Information, File Number 0710119-007-AV - Title V Air Operation Permit Renewal Application - Lee County Resource Recovery Facility (RRF)

Sent by Microsoft Exchange Server 2007

Friday, Barbara

From: Sampson, Lindsey [LSampson@leegov.com]
To: Friday, Barbara
Sent: Thursday, October 07, 2010 9:10 AM
Subject: Read: Additional Information, File Number 0710119-007-AV - Title V Air Operation Permit Renewal Application - Lee County Resource Recovery Facility (RRF)

Your message was read on Thursday, October 07, 2010 9:10:29 AM (GMT-05:00) Eastern Time (US & Canada).

Friday, Barbara

From: Sampson, Lindsey [LSampson@leegov.com]
Sent: Friday, October 08, 2010 2:49 PM
To: Friday, Barbara
Cc: Dunbar, Kirk; Castro, Don
Subject: RE: Additional Information, File Number 0710119-007-AV - Title V Air Operation Permit Renewal Application - Lee County Resource Recovery Facility (RRF)

Received.

Lindsey Sampson
Sent from my Handheld.

From: Friday, Barbara <Barbara.Friday@dep.state.fl.us>
Sent: Thursday, October 07, 2010 9:03 AM
To: Sampson, Lindsey <LSampson@leegov.com>
Cc: Gray, Laura <LGray@leegov.com>; don.castro@hdrinc.com <don.castro@hdrinc.com>; Kirk.Dunbar@HDRInc.com <Kirk.Dunbar@HDRInc.com>; Halpin, Mike <Mike.Halpin@dep.state.fl.us>; Satyal, Ajaya <Ajaya.Satyal@dep.state.fl.us>; Gibson, Victoria <Victoria.Gibson@dep.state.fl.us>; Sheplak, Scott <Scott.Sheplak@dep.state.fl.us>
Subject: Additional Information, File Number 0710119-007-AV - Title V Air Operation Permit Renewal Application - Lee County Resource Recovery Facility (RRF)

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Thank you,

Barbara Friday
Bureau of Air Regulation
Division of Air Resource Management (DARM)
(850)921-9524

The Department of Environmental Protection values your feedback as a customer. DEP Secretary Mimi Drew is committed to continuously assessing and improving the level and quality of services provided to you. Please take a few minutes to comment on the quality of service you received. Simply click on [this link to the DEP Customer Survey](#). Thank you in advance for completing the survey.

Friday, Barbara

From: Gray, Laura [LGray@leegov.com]
To: Friday, Barbara
Sent: Thursday, October 07, 2010 9:20 AM
Subject: Read: Additional Information, File Number 0710119-007-AV - Title V Air Operation Permit Renewal Application - Lee County Resource Recovery Facility (RRF)

Your message was read on Thursday, October 07, 2010 9:19:53 AM (GMT-05:00) Eastern Time (US & Canada).

Friday, Barbara

From: Microsoft Exchange
To: don.castro@hdrinc.com; Kirk.Dunbar@HDRInc.com
Sent: Thursday, October 07, 2010 9:04 AM
Subject: Relayed: Additional Information, File Number 0710119-007-AV - Title V Air Operation Permit Renewal Application - Lee County Resource Recovery Facility (RRF)

Delivery to these recipients or distribution lists is complete, but delivery notification was not sent by the destination:

don.castro@hdrinc.com

Kirk.Dunbar@HDRInc.com

Subject: Additional Information, File Number 0710119-007-AV - Title V Air Operation Permit Renewal Application - Lee County Resource Recovery Facility (RRF)

Sent by Microsoft Exchange Server 2007

Friday, Barbara

From: Dunbar, Kirk [Kirk.Dunbar@hdrinc.com]
To: Friday, Barbara
Sent: Thursday, October 07, 2010 3:39 PM
Subject: Read: Additional Information, File Number 0710119-007-AV - Title V Air Operation Permit Renewal Application - Lee County Resource Recovery Facility (RRF)

Your message was read on Thursday, October 07, 2010 3:38:56 PM (GMT-05:00) Eastern Time (US & Canada).

Friday, Barbara

From: Castro, Don [Don.Castro@hdrinc.com]
To: Friday, Barbara
Sent: Thursday, October 07, 2010 9:34 AM
Subject: Read: Additional Information, File Number 0710119-007-AV - Title V Air Operation Permit Renewal Application - Lee County Resource Recovery Facility (RRF)

Your message was read on Thursday, October 07, 2010 9:33:51 AM (GMT-05:00) Eastern Time (US & Canada).

Friday, Barbara

From: Castro, Don [Don.Castro@hdrinc.com]
Sent: Friday, October 08, 2010 10:55 AM
To: Friday, Barbara
Subject: RE: Additional Information, File Number 0710119-007-AV - Title V Air Operation Permit Renewal Application - Lee County Resource Recovery Facility (RRF)

I have received and can view the documents.

Thanks

Don Castro, P.E.
Project Manager
HDR Engineering, Inc.
5426 Bay Center Drive
Suite 400
Tampa, FL 33609-3444
Tel: 813 282 2404
FAX: 813 282 2430

From: Friday, Barbara [mailto:Barbara.Friday@dep.state.fl.us]
Sent: Thursday, October 07, 2010 9:03 AM
To: sampsolj@leegov.com
Cc: lgray@leegov.com; Castro, Don; Dunbar, Kirk; Halpin, Mike; Satyal, Ajaya; Gibson, Victoria; Sheplak, Scott
Subject: Additional Information, File Number 0710119-007-AV - Title V Air Operation Permit Renewal Application - Lee County Resource Recovery Facility (RRF)

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Thank you,

Barbara Friday
Bureau of Air Regulation
Division of Air Resource Management (DARM)
(850)921-9524

Friday, Barbara

From: Halpin, Mike
Sent: Thursday, October 07, 2010 9:12 AM
To: Friday, Barbara
Subject: Delivered: Additional Information, File Number 0710119-007-AV - Title V AirOperation Permit Renewal Application - Lee County Resource Recovery Facility(RRF)
Attachments: ATT00001

Your message was delivered to the recipient.

Friday, Barbara

From: Halpin, Mike
To: Friday, Barbara
Sent: Thursday, October 07, 2010 9:13 AM
Subject: Read: Additional Information, File Number 0710119-007-AV - Title V Air Operation Permit Renewal Application - Lee County Resource Recovery Facility (RRF)

Your message was read on Thursday, October 07, 2010 9:12:39 AM (GMT-05:00) Eastern Time (US & Canada).

Friday, Barbara

From: Microsoft Exchange
To: Satyal, Ajaya; Sheplak, Scott
Sent: Thursday, October 07, 2010 9:04 AM
Subject: Delivered: Additional Information, File Number 0710119-007-AV - Title V Air Operation Permit Renewal Application - Lee County Resource Recovery Facility (RRF)

Your message has been delivered to the following recipients:

Satyal, Ajaya

Sheplak, Scott

Subject: Additional Information, File Number 0710119-007-AV - Title V Air Operation Permit Renewal Application - Lee County Resource Recovery Facility (RRF)

Sent by Microsoft Exchange Server 2007

Friday, Barbara

From: Satyal, Ajaya
To: Friday, Barbara
Sent: Thursday, October 07, 2010 9:08 AM
Subject: Read: Additional Information, File Number 0710119-007-AV - Title V Air Operation Permit Renewal Application - Lee County Resource Recovery Facility (RRF)

Your message was read on Thursday, October 07, 2010 9:07:45 AM (GMT-05:00) Eastern Time (US & Canada).

Friday, Barbara

From: Satyal, Ajaya
Sent: Thursday, October 07, 2010 9:18 AM
To: Friday, Barbara
Subject: RE: Additional Information, File Number 0710119-007-AV - Title V Air Operation Permit Renewal Application - Lee County Resource Recovery Facility (RRF)

Thanks Barbara. Received the document.

AJ Satyal

From: Friday, Barbara
Sent: Thursday, October 07, 2010 9:03 AM
To: sampsolj@leegov.com
Cc: lgray@leegov.com; don.castro@hdrinc.com; Kirk.Dunbar@HDRInc.com; Halpin, Mike; Satyal, Ajaya; Gibson, Victoria; Sheplak, Scott
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Barbara Friday
Bureau of Air Regulation
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Friday, Barbara

From: Sheplak, Scott
To: Friday, Barbara
Sent: Thursday, October 07, 2010 9:15 AM
Subject: Read: Additional Information, File Number 0710119-007-AV - Title V Air Operation Permit Renewal Application - Lee County Resource Recovery Facility (RRF)

Your message was read on Thursday, October 07, 2010 9:15:03 AM (GMT-05:00) Eastern Time (US & Canada).

Friday, Barbara

From: Microsoft Exchange
To: Halpin, Mike; Gibson, Victoria
Sent: Thursday, October 07, 2010 9:04 AM
Subject: Delivered: Additional Information, File Number 0710119-007-AV - Title V Air Operation Permit Renewal Application - Lee County Resource Recovery Facility (RRF)

Your message has been delivered to the following recipients:

Halpin, Mike

Gibson, Victoria

Subject: Additional Information, File Number 0710119-007-AV - Title V Air Operation Permit Renewal Application - Lee County Resource Recovery Facility (RRF)

Sent by Microsoft Exchange Server 2007

Friday, Barbara

From: Gibson, Victoria
To: Friday, Barbara
Sent: Thursday, October 07, 2010 9:28 AM
Subject: Read: Additional Information, File Number 0710119-007-AV - Title V Air Operation Permit Renewal Application - Lee County Resource Recovery Facility (RRF)

Your message was read on Thursday, October 07, 2010 9:28:11 AM (GMT-05:00) Eastern Time (US & Canada).